

LED Aircone

ORDERCODE 40312



SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from Showtec.

The Showtec LED Aircone brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

You can rely on Showtec, for more excellent lighting products.

We design and manufacture professional light equipment for the entertainment industry.

New products are being launched regularly. We work hard to keep you, our customer, satisfied.

For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec. So next time, turn to Showtec for more great lighting equipment.

Always get the best -- with Showtec!

Thank you!



Showtec

Showtec LED Aircone™ Product Guide

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WARNING



CAUTION!

Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!



FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

SAFETY INSTRUCTIONS

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



CAUTION! Be careful with your operations.

With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the device and do not modify the device.
- Never use anything to cover the ground contact.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never use the device during thunderstorms, unplug the device immediately.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the lamp's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always replace the lamp, when it is damaged or deformed due to the heat.
- Always keep case closed while operating.

- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used, before cleaning or when
 replacing lamp! Only handle the power-cord by the plug. Never pull out the plug by tugging the
 power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- Make sure that no side forces can impact on the truss system.
- The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to deadly electrical shocks.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Light effect must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- This device can be installed on a flat surface or onto truss systems via the mounting bracket.
- The user is responsible for correct positioning and operating of the LED Aircone. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



CAUTION! EYEDAMAGES!. Avoid looking directly into the light source. (meant especially for epileptics)!



OPERATING DETERMINATIONS

This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

The minimum distance between light-output and the illuminated surface must be more than 0,5 meters.

The maximum ambient temperature t_{α} = 45°C must never be exceeded.

The relative humidity must not exceed 50 % with an ambient temperature of 45° C.

If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.

Any other operation may lead to dangers like short-circuit, burns, electric shock, lamp explosion, crash etc.

You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself!

Always let the installation be carried out by an authorized dealer!

Procedure:

- If the LED Aircone is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the LED Aircone, with the mounting-bracket, to the trussing system.
- The LED Aircone must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety-cable.
- When rigging, derigging or servicing the LED Aircone, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

The LED Aircone can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

Improper installation can cause serious damage to people and property!

Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!

Description of the device

Features

The Showtec LED Aircone is a LED parcan with high output and great effects.

- Never change lamps again!
- 192 LEDs (64 Red, 64 Green, 64 Blue)
- 6 DMX channels
- IP44

Overview



Fig. 1

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Always disconnect from electric mains power supply before cleaning or servicing. Damages caused by non-observance are not subject to warranty.

To use the Dipswitches, you first have to unscrew the protection cover.





Fig. 2

Multiple LED Aircones (DMX Control)

- 1. Fasten the effect light onto firm trussing (Use a 30-kg rated or stronger C-clamp bolted onto the Showtec Shogun bracket) or set the LED Aircone down on any flat surface. Leave at least 0,5 meter on all sides for air circulation.
- 2. Use a 3-p XLR cable to connect the Aircones. The pins:



- 1. Earth
- 2. Signal -
- 3. Signal +
- **3.** Link the units as shown in (figure 3), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
- 4. Set DMX dip switches as follows (See Dip Switch setting page 8).

LED Aircone	Address Value	DMX Dip Switches "ON"
Unit 1	1	ON 0FF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Unit 2	7	ON 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Unit 3	13	ON 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Unit 4	19	ON 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

5. Supply electric power: Plug the end of the mains power cord into proper electric power supply sockets. Do so for all units and the controller.

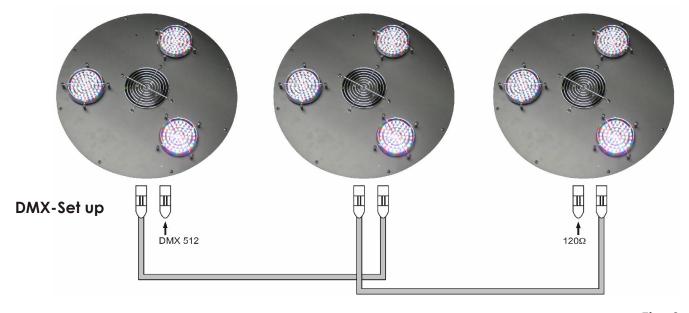


Fig. 3

Note: Link all DMX cables and set dip switches before connecting electric power

6. Do not supply power before the whole system is set up and connected properly. Design your show according to your DMX controller functions. After every new dipswitch setting you have to disconnect the power, and then turn the power on to activate the new dipswitch setting.

Control Modes

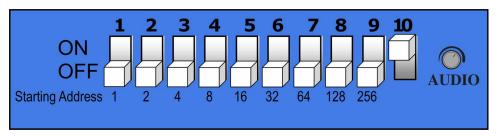
There are 4 Modes: Sound-controlled

Auto Mix Color Manual Mode

DMX

1. Sound Control Mode

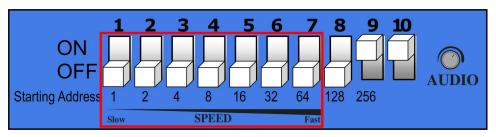
When dipswitch #10 is turned on, the Aircone will automatically change its color to the beat of the music. With the Audio Sensitivity control you can adjust its music-sensitivity.



2. AUTO Mix Color Mode

When dipswitch #9 and #10 are turned on, the LED Aircone is in AUTO Mix Color Mode.

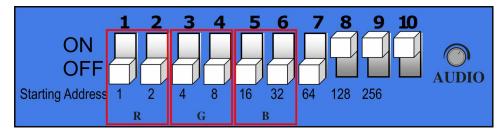
- Dipswitches #1 - #7 control the changing speed.



3. Manual Mode

When the dipswitches #8, #9 and #10 are turned on, the LED Aircone is in Manual Mode.

- Dip Switches #1 and #2 control the brightness of the Red LEDs
- Dip Switches #3 and #4 control the brightness of the Green LEDs
- Dip Switches #5 and #6 control the brightness of the Blue LEDs



Brightness grades, Example RED:

00 (Dipswitch Setting: 🐉) = 0%

10 (Dipswitch Setting: 📜) = 25%

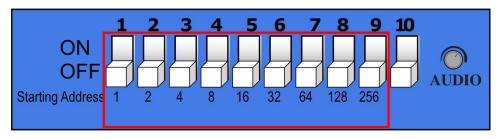
01 (Dipswitch Setting: 📜) = 50%

11 (Dipswitch Setting: 📜) = 100%

4. DMX Mode

When all dipswitches are turned off, the LED Aircone is in DMX Mode.

- Dipswitches #1 - #9 control the DMX Addresses.



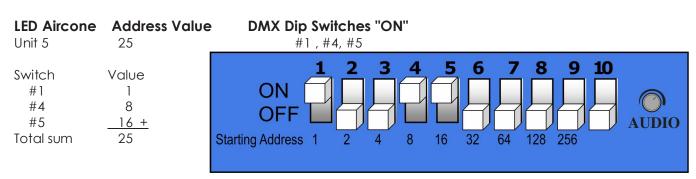
DMX Dipswitch Settings

DMX products must have their own "address" to receive DMX signals. Addresses on the controller are set by flipping the appropriate DMX dipswitches.

You need to know that DMX address settings are the sum of the dip switch values.

A standard DMX address for a Showtec LED Aircone, which has 6 channels is as follow:

Example



Explanation: Since each unit has 6 channels, each address advances 6 values (See Address Value above). Once address values are determined, add DMX dipswitch values to obtain the appropriate address (DMX Dip Switches "ON") for each unit. Flip appropriate DMX dipswitches on each unit.

Example:

- 1. If you want to give an Aircone DMX address133, you first have to find the number 133 in the DMX Chart.
- 2. Then look at the left side (Dip Switches #1-#5) horizontally from 133. In the Table you'll see #1=ON, #2=OFF, #3=ON, #4=OFF, #5=OFF.
- 3. Finally look at the upper side of the table (Dip Switches #6-#9) vertically from 133. In the Table you'll see #6=OFF, #7=OFF, #8=ON, #9=OFF.

DMX Address Quick Reference Chart

D	MX DIF	SWIT	TCH SE	T	#9	0	0	0	0	0	0
		0=OFF	:		#8	0	0	0	0	1	1
		1=ON			#7	0	0	1	1	0	0
					#6	0	1	0	1	0	1
#1	#2 #3 #4 #5										
0	0	0	0	0			32	64	96	128	160
1	0	0	0	0		1	33	65	97	129	161
0	1	0	0	0		2	34	66	98	130	162
1	1	0	0	0		3	35	67	99	131	163
0	0	1	0	0		4	36	68	100	132	164
1	0	1	0	0		5	37	69	101	133	165
0	1	1	0	0]	6	38	70	102	134	166

No		DMX Address Quick Reference Chart																				
March Marc																			Dip S	witch	Pos	ition
Heat	DI	MX DIF	SWI	TCH SE	ĒΤ	#9	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
## ## ## ## ## ## ## ## ## ## ## ## ##			0=OFF			#8	0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
			1=ON			#7	0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
						#6	0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
1	#1	#2	#3	#4	#5																	
1	0	0	0	0	0			32	64	96	128	160	192	224	256	288	320	352	384	416	448	480
1	1	0	0	0	0		1	33	65	97	129	161	193	225	257	289	321	353	385	417	449	481
0	0	1	0	0	0		2	34	66	98	130	162	194	226	258	290	322	354	386	418	450	482
1	1	1	0	0	0		3	35	67	99	131	163	195	227	259	291	323	355	387	419	451	483
0 1 1 1 0 0 0 6 38 70 102 134 166 198 230 262 294 326 358 390 422 454 44	0	0	1	0	0		4	36	68	100	132	164	196	228	260	292	324	356	388	420	452	484
1	1	0	1	0	0		5	37	69	101	133	165	197	229	261	293	325	357	389	421	453	485
8 40 72 104 136 168 200 232 264 296 328 360 392 424 456 44 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 0	0	1	1	0	0		6	38	70	102	134	166	198	230	262	294	326	358	390	422	454	486
1	1	1	1	0	0]	7	39	71	103	135	167	199	231	263	295	327	359	391	423	455	487
0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0	0	0	0	1	0	1	8	40	72	104	136	168	200	232	264	296	328	360	392	424	456	488
1	1	0	0	1	0	1	9	41	73	105	137	169	201	233	265	297	329	361	393	425	457	489
1	0	1	0	1	0	1	10	42	74	106	138	170	202	234	266	298	330	362	394	426	458	490
1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 6 48 80 112 144 176 208 240 272 304 336 368 400 432 464 49 1 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 49 1 1 0 0 1 1 1 49 81 113	1	1	0	1	0	1	11	43	75	107	139	171	203	235	267	299	331	363	395	427	459	491
0 1 1 1 0 14 46 78 110 142 174 206 238 270 302 334 366 398 430 462 49 1 1 1 1 1 0 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 48 1 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 48 1 0 0 1 1 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 49 1 0 1 0 0	0	0	1	1	0	1	12	44	76	108	140	172	204	236	268	300	332	364	396	428	460	492
1 1 1 1 1 0 0 0 0 1 15 47 79 111 143 175 207 239 271 303 335 367 399 431 463 48 0 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 48 1 0 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 48 1 1 0 0 1 1 146 178 210 242 274 306 338 370 402 434 466 48 1 1 1 0 1 1 0 1 20 52 84	1	0	1	1	0	1	13	45	77	109	141	173	205	237	269	301	333	365	397	429	461	493
0 0 0 0 1 16 48 80 112 144 176 208 240 272 304 336 368 400 432 464 49 1 0 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 49 0 1 0 0 1 18 50 82 114 146 178 210 242 274 306 338 370 402 434 466 49 1 1 0 0 1 0 1 20 52 84 116 148 180 212 244 276 308 340 372 404 436 468 56 1 0 1 0 1 0 1 1 0 1 22	0	1	1	1	0	1	14	46	78	110	142	174	206	238	270	302	334	366	398	430	462	494
1 0 0 0 1 17 49 81 113 145 177 209 241 273 305 337 369 401 433 465 49 0 1 0 0 1 18 50 82 114 146 178 210 242 274 306 338 370 402 434 466 48 1 1 0 0 1 0 1 19 51 83 115 147 179 211 243 275 307 339 371 403 435 467 49 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	1	1	1	1	0	1	15	47	79	111	143	175	207	239	271	303	335	367	399	431	463	495
0 1 0 0 1 18 50 82 114 146 178 210 242 274 306 338 370 402 434 466 49 1 1 0 0 1 19 51 83 115 147 179 211 243 275 307 339 371 403 435 467 49 0 0 1 0 0 1 1 0 0 0 1 1	0	0	0	0	1	1	16	48	80	112	144	176	208	240	272	304	336	368	400	432	464	496
1 1 0 0 1 19 51 83 115 147 179 211 243 275 307 339 371 403 435 467 49 0 0 1 0 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0	1	0	0	0	1	1	17	49	81	113	145	177	209	241	273	305	337	369	401	433	465	497
0 0 1 0 1 0 1 20 52 84 116 148 180 212 244 276 308 340 372 404 436 468 50 1 0 1 0 1 0 1 0 1 1 404 436 468 50 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 24 56 88 120 152 184 216 248 280 312 344 376 408 440 472 50 <	0	1	0	0	1	1	18	50	82	114	146	178	210	242	274	306	338	370	402	434	466	498
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1 1 1 1 1 1 31 63 95 127 159 191 223 255 287 319 351 383 415 447 479 57	1	1	1	1	1	1	31	63	95	127	159	191	223	255	287	319	351	383	415	447	479	511

Dip Switch Position

DMX Address

DMX Channels

CH6	CH1	CH2	CH3	CH4	CH5
MODE	R	G	В	Macro	Speed/Strobe
	0 OFF	0 OFF	0 OFF		0-15 OFF
Color Setting 0-31	1-255 Dimmer	1-255 Dimmer	1-255 Dimmer		16-255 Strobe with 16 adjustable speeds
Lightness decreasing	0-15 OFF	0-15 OFF	0-15 OFF		
(Fade Out) 32-63	16-255 ON	16-255 ON	16-255 ON		
Lightness increasing	0-15 OFF	0-15 OFF	0-15 OFF		
(Fade In) 64-95	16-255 ON	16-255 ON	16-255 ON		
Fade Out & In Mode	0-15 OFF	0-15 OFF	0-15 OFF		
Tade Out & III Mode	16-255 ON	16-255 ON	16-255 ON	0-15 Macro OFF	
Automatically Mix Color 128-159					0-255 Speed
3-color flash in turn (Chase) 160-191	0-255 NA	0-255 NA	0-255 NA		
7-color flash in tum (Chase) 192-223					
Sound Action 224-255					0-255 NA
0-255 NA	0-255 NA	0-255 NA	0-255 NA	16-255 Macro ON	16-255 Strobe

Note: When channel 4 is between 16-255 (ON), you can choose 31 different color Macros or blackout.

Maintenance

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every four years in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- 1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 2. There may not be any deformations on housings, fixations and installation spots.
- 3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
- 4. The electric power supply cables must not show any damages or material fatigue.

The Showtec LED Aircone requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

Replacing a Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below to do so.

1. Unplug the unit from electric power source.

2. Insert a screwdriver into the slot in the fuse cover. Turn the screwdriver to the left, at the same time gently

push a bit (Turn and Push). The fuse will come out.



- 3. Remove the used fuse. If brown or unclear, it is burned out.
- **4.** Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

- 1. If the device does not operate properly, unplug the device.
- 2. Check the power from the wall, all cables, the fuse etc.
- 3. If all of the above appears to be O.K., plug the unit in again.
- **4.** If you are unable to determine the cause of the problem, do not open the LED Aircone, as this may damage the unit and the warranty will become void.
- 5. Return the device to your Showtec dealer.

No Light

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps. If the light effect does not operate properly, refer servicing to a technician.

Response: Suspect two potential problem areas: the power supply or the LEDs.

- 1. Power supply. Check that the unit is plugged into an appropriate power supply.
- 2. The LEDs. Return the LED Aircone to your Showtec dealer.

Product Specification

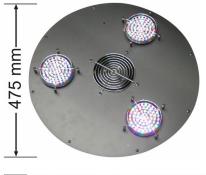
Model: Showtec LED Aircone Voltage: 240V-50Hz (CE)

Power: 150W Weight: 9,72 kg

Minimum distance:

Minimum distance from flammable surfaces: 0.5m

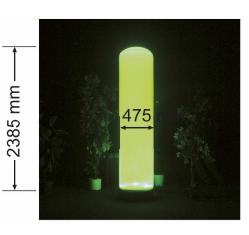
Minimum distance to lighted object: 1.3m











Design and product specifications are subject to change without prior notice.



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